FURKAIO, N.K.

Comparative evaluation of arterial piesography in the diagnosis of therosclerosis. Vrach.delo no.1:1275-1279 D 158. (MIRA 12:3)

1. Kafedra terapii I (zav. - prof. D.F. Chebotarev) Kiyevskogo instituta usovershenstvovaniya wachev.

(ARTERIOSCIEROSIS)

## FURKALO, N.K.

Comparative evaluation of direct ballistocardiography in patients with atherosclerotic disorders of the cardiovascular system.

Vrach.delo no.4:365-369 Ap '60. (MIRA 13:6)

1. Kafedra terapii (sav. - prof. D.F. Chebotarev ) I Kiyevskogo instituta usovershenstvovaniya vrachey.

(BAILISTOCARDIOGRAPHY) (CARDIOVASCULAR SYSTEM--DISEASES)

FURKALO, N. K.

Communication of the Communica

Cand Med Sci - (diss) "Comparative evaluation of the method of arterial piezography in diagnostics of aterosclerosis." Kiev, 1961. 16 pp; (Ministry of Public Health Ukrainian SSR, Kiev Order of Labor Red Banner Med Inst imeni Academician A. A. Bogomolets); 200 copies; price not given; (KL, 6-61 sup, 241)

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# FURKALO, N.K.

Hypercholesterinemia and its diagnostic significance in atherosclerosis. Vrach. delo no. 1:35-39 '61. (MIRA 14:4)

1. Kafedra terapii 1 (zav. - prof. D.F. Chebotarev) Kiyevskogo instituta usovershenstvovaniya vrachey.

(CHOLESTEROL) (ARTERIOSCLEROSIS)

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# Evaluation of the method of direct ballistocardiography in patients with atherosclerotic lesions of the cardiovascular system. Terap. arkh. 32 no. 2:56-61 F 161. (MIRA 14:1) (ARTERIOSCIEROSIS) (BALLISTOCARDIOGRAPHY)

# FURKALO, N.K.

Late ventricular extrasystoles. Vrach. delo no.12:140-141 D '61.
(MINA 15:1)

1. Kafedra terapii I (zaveduyushchiy - chlen-korrespondent AMN SSSR, prof. D.F.Chebotarev)Kiyevskogo instituta usovershenstvovaniya vrachey.
(ANUHYTHMIA)

RADZIVIL, V.F., kand.med.nauk; KORKUSHKO, O.V., kand.med.nauk; FURKALO, N.K., kand.med.nauk

Treatment with procaine amide of some disorders of cardiac rhythm [with summary in English]. Vrach.delo no.9:43-47 S '62.

(MIRA 15:8)

1. Kafedra terapii Kiyevskogo instituta usovershenstvovaniya vrachey.

(PROCAINE AMIDE) (ARRHYTHMIA)

FURKALO, N. K., kand. med. nauk

Evaluation of the velocity of the spreading of the pulse wave in patients with hypertension. Vrach. delo no.6:52-57 Je 162. (MIRA 15:7)

 Kafedra terapii I (zav. - chlen-korrespondent AMN SSCR, prof.
 D. F. Chebotarev) Kiyevskogo instituta usovershenstvovaniya vrachey.

(HXPERTENSION) (PULSE)

KOGUT, M.D., dotsent; FURKALO, N.K., kand.med.nauk

Changes in the electrocardiogram in surgical interventions. Vrach.delo no.12:81-87 D '62. (MIRA 15:12)

1. Kafedra terapii I (zav. - chlen-korrespondent AMN SSSR, prof. D.F.Chebotarev) i kafedra khirurgii II (zav. - sasluzhennyy deyatel' nauki, prof. I.I.Kal'chenko) Kiyevskogo instituta usovershenstvovaniya vrachey.

(ELECTROCARDIOGRAPHY) (SURGERY, OPERATIVE)

Ŵ,

FURKALO, N.K., kand.med.nauk; KOGUT, M.D., kand.med.nauk; FEDISHIN, P.S., kand.med.nauk; KORKUSHKO, O.V., kand.med.nauk; RADZIVIL, V.F., kand.med.nauk.

Clinical aspects of some temporal correlations in the ballisto-cardiogram. Vrach. delo no.4230-36 Ap<sup>1</sup>63. (MIRA 16:7)

l. Kijevskiy institut usovershenstvovaniya vrachey; nauchmyy rukovoditel: - chlen-korrespondent AMN SSSR, prof. D.F.Chebotarev. (BALLISTOCARDIOGRAPHY)

TURKALO, N.K.; RADZIVIL, V.F.

Comperison of ophthalmoscopic data and the speed of the pulse wave spread in hypertension and atherosclerosis. Kardiologiia 4 no.3175-76 My-Je 164. (MIRA 18:4)

1. 1-ya kafedra terapii (zav. - doktor med.nauk 1.M.Gandzha) Kiyevskogo instituta usovershenstvovaniya vrachey.

Experiences with the maintenance of safety equipment on the Bratislava airport. Letecky obzor 6 no.8:266 '62.

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	TRUME VERTICAL VOL. 26, 1954		
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# FURLAN, D.

FURIAN, D.

Snowfall in Slovenia February 11-15, 1952. p. 221. GEOGRAFSKI ZBORNIK. ACTA GEOGRAPHICA. Ljubljana. Vol. 3, 1955

So. Fast European Accessions List Vol. 5, No. 9 September, 1956

FURLAR, D.

GEOGRAPHY & GEOLOGY

(Fundamentals of Theoretical Meteorology and Climatology); a book review, p. 381. Vol. 27/28, 1955/56 (published 1957).

Monthly List of East European Accessions (EEAI) Vol. 11, No. 2.

April 1959 Unclass.

FURLAN, D.

Repartition of precipitations in Yogoslavia as a reflection of European "monsoon." p. 141

GEOGRAFSKI VESTNIK, (Geografsko drustvo v Ljubljani Lujbljana, Yugoslavia. Vol. 29/30, 1957/58

Monthly List of East European Accessions (EEAI) LC Vol. 9, no. 2, Jan 1960 Uncl.

S/169/62/000/012/060/095 D228/D307

AUTHOR:

Furlan, Danilo

TITLE:

Precipitation in Slovenia

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 12, 1962, 55-56, abstract 123363 (Geogr. zb. Slov. akad. znan. in umetn. Razr. prirodosl. in med. vede, 6, 1961, 5-160 (Gloven.; summary in Eng.))

TENT: The precipitation distribution in Glovenia is studied from data for 1925-1940. 124 maps are appended. The mountain barrier, stretching to the west of the republic at right angles to the direction of moist south-westerly winds, influence the yearly precipitation distribution. .way from the steep slopes of this barrier (Julian Alps and Gnežnik - more than 3000 mm a year) the precipitation decreases sharply towards the coast (1000 mm). It also diminishes gradually eastwards (Prelmurje - 300 mm). On landward slopes of the barrier the topography only slightly influences the amount of precipitation, which, in the author's opinion, stems from the unsta-

Card 1/3

3/169/62/000/012/060/095 D223/D307

Precipitation in Slovenia

ble state of the atmosphere and from the advection of cold masses, as well as from the closeness of cyclonic centers. In winter, spring and autumn more precipitation falls in the coastal zone than is the case on the continental plain (Fredmurje). In summer more precipitation falls on the plain of Prekmurje than in the coastal zone, the approximate ratio being 7:4. The maps of the precipitation distribution in percentages of the yearly total show a maximum in the north of Blovenia in the cold season and one in the south in the remaining months. The number of dry months is greatest on the western mountain barrier (3 months - nearly the same as for relaming). The greatest number of days with precipitation in the year is noted in the Julian Alps (170 days); by the sea, and also at Freemurje, they exceed 100. The large number of days with feeble precipitation in May stems from the lower humidity of the atmosphere and from the stable stratification over land that is gradually becoming warmer. The average duration of the dry period is 125 days in the coastal zone and above 70 in the Julian Alps. Despite the fact that 3lovenia is regarded as one of the wettest regions of Europe, the rainy periods ( > 10 days) throughout the south-eastern half of the repub-Card 2/3

Precipitation in Glovenia

\$/169/62/000/012/060/095 D228/D307

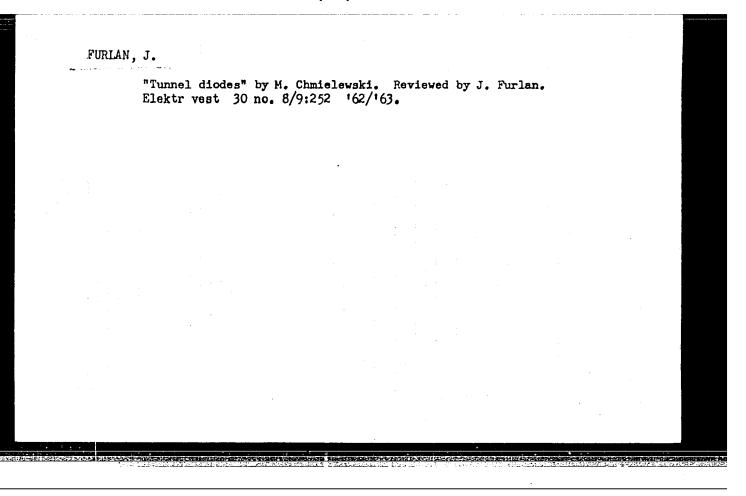
lic contain on an average 5 days with precipitation, whereas in the Julian Alps rainy periods may contain more than 20 days. On the map of the annual precipitation variability the belt of relatively little change (up to 14%) passes away from the sea to almost as far as Maribor. Towards the Julian Alps the variability increases to 10%, and over the remaining territory it grows to 16%. A maximum daily precipitation of up to 300 mm falls on the vestern barrier. The author reckons that the time in which maximum precipitation develops in the Julian and Dinaric Alps depends on the annual displacement of the polar front and on incursions, associated with the position of the Azores high. In the cold season frontal and orographic precipitation falls on the major (south-western) half of Blovenia, but from May to September frontal precipitation falls chiefly in the north of Slovenia. According to the data for 1925-1940 the boundary between zones with autumn and summer precipitation maxima passes along the Mislinja and Paka Rivers, i.e. much further to the east than was previously supposed. 90 references.

Abstracter's note: Complete translation

Card 3/3

Capacitive effect of p-n junctions in the zone of avalanche ionization. Elektr vest 30 no.1/2:8-10 '62/'63.

1. Address: Fakulteta za elektrotehniko, Ljubljana.



Acute rheumatic myocardial changes in subacute bacterial endocarditis.

Srpski arh. celok. lek. 85 no.5:604-608 Mar 57.

1. Interna klinika B Medicinskog fakulteta u Beogradu. Upravnik;
Radivoj Berovic. Institut sa patolosku anatomiju Medicinskog fakulteta
u Beogradu. Upravnik: Marija Visnjic Frank.

(INNOCARDIVES, SUBACUTE RACTERIAL, compl,
rhem, changes of myocardium (Ser))

(MYOCARDIUM, in var. dis.
acute rheum. changes in subacute bact. endocarditis (Ser))

FURLAN, M.; ANTONIJEVIC, M.; LEBEZ, D.

Paper-chromatographic analysis of the nitrogen compounds excreted by the livers of irradiated frogs. Bul sc Youg 7 no.1/2:12 F-Ap '62.

1. Institut "J. Stefan," Ljubljana.

\*

JOVANOVIC, Vasilije; RADAKOVIC, Natalija; KOVACEVIC, Stojanka;
MAJSTOROVIC, Branislav; FURLAN, Milan; ANDREJEVIC, Ljubica;
STAMENKOVIC, Jela

A case of metrorrhagia complicated by acute renal failure following blood transfusion. Srpski arh. celok. lek. 92 no.10: 991-995 0 '64.

1. Interno odeljenje Gradske bolnice u Beogradu (Nacelnik: prof. dr. Mihailo Andrejevic); Hirursko odeljenje Gradske bolnice u Beogradu (Nacelnik: prof. dr. Mitar Mitrovic); Biohemijski laboratorijum Gradske bolnice u Beogradu (V.d. sefa: dr. Mila milutinovic),

FURLAN, M.; ANTONIJEVIC, M.; LEPEZ, D.

Stud's on the nitrogen metabolism in frog liver after whole-body irradiation. I. Neoplasma (Bratisl.) 12 no.51479-487 165.

1. Department of Radiobiology, Nuclear Institute \*Jozef Stefan\*, Ljubljana, Yugoslavia. Submitted September 10, 1964.

FUHLAN, Tomax, Prim.dr.

proceeded 2000 of the fight against tuberculosis. Tuberkulosa, Beogr.
6 no.5-6:253-259 Sept-Dec.'55.

1. Institut sa tuberkulosu M R Slovenije--Golnik(direktor prim.
dr. T. Furlan)

(TUBERCULOSIS, PULMONARY, prev. & control
in Yugosl., construction of sanatoria & clinics(Ser))

FURLAN, Tomaz, Prim.dr.

No translation. Tuberkulosa Beogr. 6 no.5-6:317-320 Sept-Dec.'55.

1. Institut sa tuberkulosu N R Slovenije--Golnik(direktor: prim dr. T. Furlan)

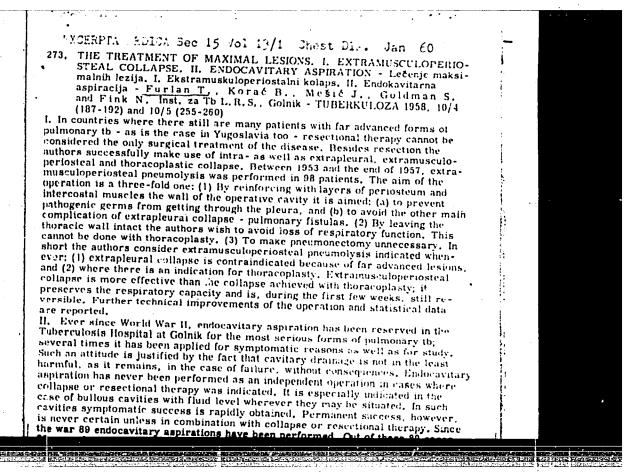
(COLLPASE THERAPY,

pneumonolysis, extra-musculo-periosteal (Ser))

Tuberculosis after 8 years of tuberculostatic therapy.

Med. glasn. 10 no.11-12:442-447 Nov-Dec 56.

(TUBERCULOSIS, ther.
tuberculostatic (Ser))



GOIDMAN,S.; LAVRIC,B.; FURIAN,T.; PAPO,I.; STUDIC,J.; BENEDIK,M.; CESTEIK,I.

Results of surgical therapy of pulmonary tuberculosis with special reference to pulmonary resection. Tuberkuloza, Beogr. 11 no.2:147-166 '59.

(PNEUMONECTOMY)

Generalised pneumocephalus ans a complication of extrapleural pneumothorax. Tuberkulosa, Beogr. 11 no.3:356-359 '59.

1. Bolnica sa tuberkulosu, Golnik, direktor: prim. dr T. Furlan.

(PNEUMOTHORAX ARTIFICIAL compl.)

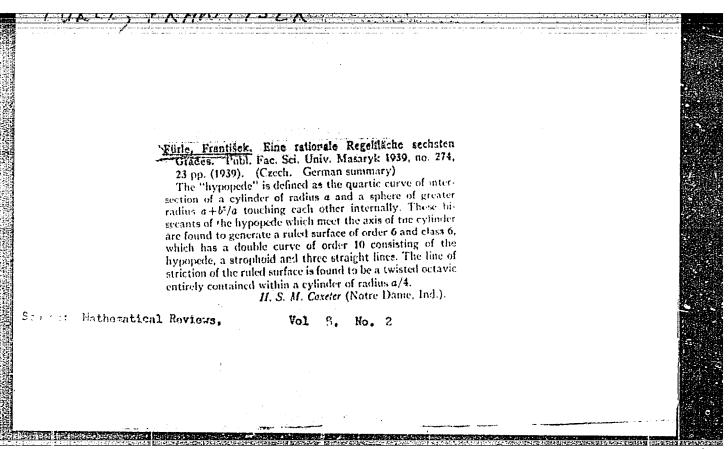
(BHAIN dis.)

FURLAN, Tomaz; FINK, Leon

Therapy of maximum lesions. III. Pneumonectomy. Tuberkuloza,
Beogr. 12 no.1:3-9 '60.

1. Bolnica za tuberkulozu, Golnik (direktor: dr. T. Furlan)

(PNEUMONECTOMY)



SHILKO, M.O. [Shylko, M.O.], dotsent; FURLET, A.A., assistent

Treatment of weak labor with spherophysine. Ped., akush. i gin. 22 no.3:47-50 160. (MIRA 14:4)

1. Kafedra akusherstva i ginekologii (zav. - dotsent M.O.Shilko)
pediatricheskogo fakul'teta Krymskogo meditsinskogo instituta
(direktor - dotsent S.I.Georgiyevskiy).

(LABOR (OBSTETRICS)) (SPHEROPHYSINE)

SHILKO, N.A., dotsent; FURLET, A.A., assistent; KALASHNIKOV, V.P., student VI kursa

Physiological condition of the uterus in women in early stages of the puerperium. Akush.i gin. 37 no.2:39-44 F '61.

(MIRA 14:3)

1. Iz kafedry akusherstva i ginekologii (zav. - N.A. Shilko)
pediatricheskogo fakul'teta Krymskogo meditsinskogo instituta.

(UTERUS) (PUERPERIUM)

# FURLET, A.A., assistent

Effect of hemorrhages in labor and the early puerperium on the protein spectrum of the peripheral blood in puerperae. Ped., akush. i gin. 24 no.1:55-57:62. (MIRA 16:8)

1. Kafedra askusherstva i ginekologii pediatricheskogo fakulteta (zav. - dotsent M.O.Shilko [Shylko]) Krymskogo meditsinskogo instituta (rektor- dotsent S.I.Georgiyevskiy [Heorhiiev'skiy, S.I.].

(HEMORRHAGE, UTERINE) (BLOOD PROTEINS)

ZAVRAZHIN, V.I., FURLETOV, N.G.

Obtaining and use of gastric juice of horses on farms in Tambov Province. Veterinariia 41 no.2:67-70 F '64. (MIRA 17:12)

1. Direktor Tambovskoy oblastnoy veterinarnoy polikliniki (for Zavrazhin). 2. Glavnyy veterinarnyy vrach sovkhoza "Tambovskiy", Tambovskaya obl. (for Furletov).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513910013-8"

FURMAGA, S., SMIRNOW, W.

"Jak zwalczać szkodliwe owady na wsi" (How to combat noxious insects in the country), by S. Furmaga, W. Smirnow. Reported in New Books (Nowe Ksiazki).

No. 14, July 15, 1955

# Helminthological fauna of field rodents and of predatory birds. Wiadomosci parasyt., Warsz. 2 no 5 Suppl:237-238 1956. 1. Zaklad Parasytologii i Chorob Inwazjnych WSR. (HELMINTH INFECTIONS, epidemiology in field rodents & predatory birds (Pol)) (BIRDS, diseases, helminthiases in predatory birds, relation to infect. of field rodents (Pol)) (RODENTS, diseases, helminthiases in field rodents, relation to infect. of predatory birds (Pol))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513910013-8"

POLAND / Zooparasitology - Helminths.

G-2

Abs Jour

: Ref Zhur - Biol., No 18, 1958, No. 81722

Author

: Furmaga, S.

Inst

: Not given

Titlo

: Holminthofauna of Field Rodents in Lyublin Envirors

Orig Pub

: Acta parasitol. polon., 1957, 5, No 1-12, 9-50

Abstract

: In 1954-1955 667 rodents of 8 species wore dissected:
Apodomus agrarius, A. sylvaticus, A. flavicollis,
Microtus arvalis, M. agrostis, M. raticops, M. subterranous
and Mus musculus. Helminths (16 species) were found
in 279 rodents (41%); among these 1 species was identified
in 35%, 2 species in 5.3%, 3 in 0.3%. Most infected were
A. sylvaticus, A. flavicollis and M. musculus. Most
provalent were costedes (Humonolepis diminuta, Paranoplocephala brevis, Catenotaenia pusilla and others) and
nomatodes (Syphacia obvelata, Heligmosemum abborans, H.

Card 1/2

POLAND / Zooparasitology - Holminths.

G-2

Abs Jour

: Rof Zhur - Biol., No 18, 1958, No. 81722

polygyrum and Trichocophalus muris). Extent of invasion is highest in April-June and in the beginning of winter. No strict specificity of helminths to a definite host species was found. Helminths Longistriata beta, Hel. aberrans, Hel. skrjabini and Hel. polygyrum are identified on Polish territory for the first time. Hym. diminuta, Hel. polygyrum, T. muris and Ganguleterakis spumesa are found in A. agrarius for the first time. There is a description of the parasites found and the circle of their hosts is indicated. Author's abstract.

Card 2/2

12

# FURMACA, Stefan

Endoparasites in mole (Talpa europaea L.) in the Lublin region. Wiadomosci parazyt., Warsz. 4 no.5-6:695; Engl. transl. 696 1958.

# BEZUBIK, Berrard: FURMACA, Stefan The parasites in Macacus cynomolgus L. from Indonesia. Acta parasit 8 no.8/20:335-344 Je '60. 1. Katedra Parazytologii W.S.R. Lublin. (Helminths) (Indonesia--Macacus cynomolgus)

# FURMAGA, Stefan

Materials to the helminth fauna of hedge-hogs Erinaceus roumanicus Barrett-Hamilton. Acta parasit Pol 9 no.22/30:441-445 '61.

1. Department of Parasitology and Parasitic Diseases, Agricultural College of Lublin. Head: Docent, dr. Eugeniusz Zarnowski. Author's address: Katedra Parazytologii Wyzszej Szkoly Rolniczej, Lublin, Akademicka 11.

FURMAGA, Stefan

Histochemical investigations of the liver in the course of experimental fascioliasis in rabbits. Acta parasit Fol 11 no.1/4:49-76 163.

1. Department of Parasitology, Agricultural University College, Lublin, Head: prof. dr Eugeniusz Zarnowski.

Some observations on Setaria equina (Abildgaard, 1789).
Acta parasit Pol 12 no.1/12:1-5 '64.

1. Zoological Institute, University, Warsaw (for Bezubik).
2. Department of Parasitology, College of Agriculture, Lublin Head:Prof. Dr Eugeniusz Zarnowski (for Furmaga).

# FURMAGA, Stefan

Observations on Setaria cervi (Rudolphi, 1819). Acta parasit Pol 1/12:7-12 '64.

1. Department of Parasitology, College of Agriculture, Lublin. Head: Prof. Dr Eugeniusz Zarnowski.

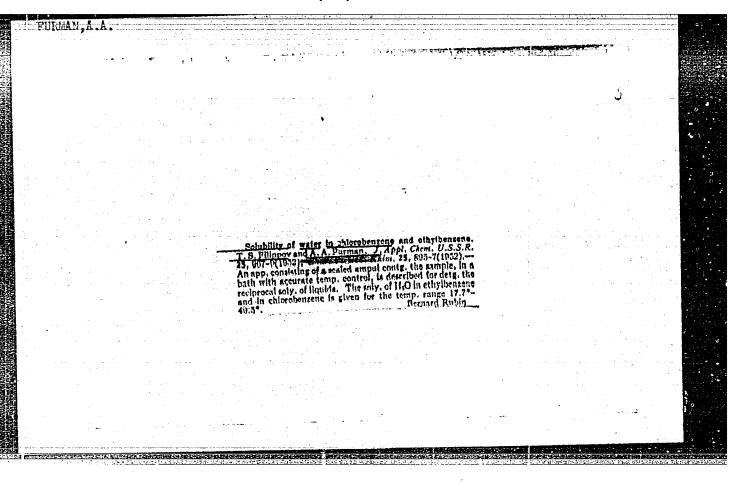
FURMAN, A.

5,500 competitors. Za bezop.dvizh. 4 no.4:5 Ap '62. (MIRA 15:5)
(Traffic safety...Competition)

ACC NR: AP6019556 SOURCE CODE: UR/0416/66/000/001/0061/0063 AUTHOR: Furman, A. (Major) 13 ORG: none 13 TITLE: Railway transportation of equipment SOURCE: Tyl i snabzh sov vooruzh sil, no. 1, 1966, 61-63 TOPIC TAGS: transportation system, railway transportation, tracked vehicle ABSTRACT: In this article practical advice is given for the transportation of certain four-axle machines and units mounted on one-axle tractors which are to be moved on railroad flatcars. The loading, placement, and fastening of four-axle armored carriers and a crane unit mounted on a one-axle tractor on a four-axle flatcar are described in detail. Orig. art. has: 2 figures. SUB CODE: 13,15/ SUBM DATE: none

08951-67 CC NRi AP60300	98 (A)	SOURCE	CODE: UR/031	7766/000/008	005670057	
AUTHOR: Furman	<b>\</b>	•			8	
ORG: none						
TITLE: Motor v	ehicle entraining			•	•	
SOURCE: Tekhni	ka i vooruzheniye,	no. 8, 1966,	56-57			
TOPIC TAGS: ra	ilway transportati	lon, cargo truc	k .			
ADCTDACT. This	article describes	the "inclined	method of	loading empty	platform	
ABSTRACT: This trucks onto fla the fuel tank i loading reduces	article describes tcars and the rule s filled to only o rolling stock req g. art. has: 1 fi	es to be follower one-third capac quirements and (	ed when using ity. The uso shipping cost	e of this met	hod of	
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FURMAN, A. More energy and initiative. Za besop.dvish. 4 no.1:4-5 Ja (MIRA 16:7) (Traffic safety)



5(1),5(2)

Martynov, Yu. M., Yakimenko, L. M., AUTHORS:

507/64-58-7-9/18

Furman, A. A., Matveyev, M. A.

TITLE:

The Technology of the Production and Use of Magnesium Chlorate for Defoliation (Tekhnologiya proizvodstva i primeneniye khlorat-magniyevykh defoliantov)

. CON CONTRACO DE CONTRACTO DE C

PERIODICAL:

Khimicheskaya promyshlennost', 1958, Nr 7, pp 420-423 (USSR)

ABSTRACT:

Mainly calcium cyanamide is used for artificial defoliation. In the cotton districts of the USSR irregular results were, however, obtained as the use of this substance depends on certain meteorological conditions. Among several preparations investigated the best results were obtained with magnesium chlorate. A comparative table of the experimental results with calcium cyanamide and magnesium chlorate for defoliation of cotton plants demonstrates that the effect of magnesium chlorate depends to a much lesser degree on temperature and meteorological conditions. The production possibilities of magnesium chlorate were studied, and it was found that favorable results are obtained after the reaction 2 NaClO<sub>3</sub> + MgCl<sub>2</sub> $\longrightarrow$  Mg(ClO<sub>3</sub>)<sub>2</sub> +2NaCl

Card 1/2

The Technology of the Production and Use of Magnesium Chlorate for Defoliation

SOV/64-58-7-9/18

if carried out in acetone. The purity of the product obtained depends on the amount of water present in the  ${\rm MgCl}_2$ . A further method that already can be used industrially consists in the fact that sodium chlorate is added to the fused  ${\rm MgCl}_2$  •  ${\rm 6H}_2{\rm O}$ 

(Ref 12); thus a solid crystalline product is obtained. The temperature is maintained at  $110 - 120^\circ$  and special melting crucibles are used. To obtain a reaction product with a minimum melting-point of  $45^\circ$  the ratio between magnesium chloride and sodium chlorate must be 1.3 - 1.4. To produce one ton with 58% Mg(ClO<sub>3</sub>)<sub>2</sub> • 6H<sub>2</sub>O 0.44 tons of sodium chlorate and

0.56 tons of  ${\rm MgCl}_2$  •  $6{\rm H}_2{\rm O}$  are required.

There are 2 figures, 4 tables, and 12 references, 3 of which are Soviet.

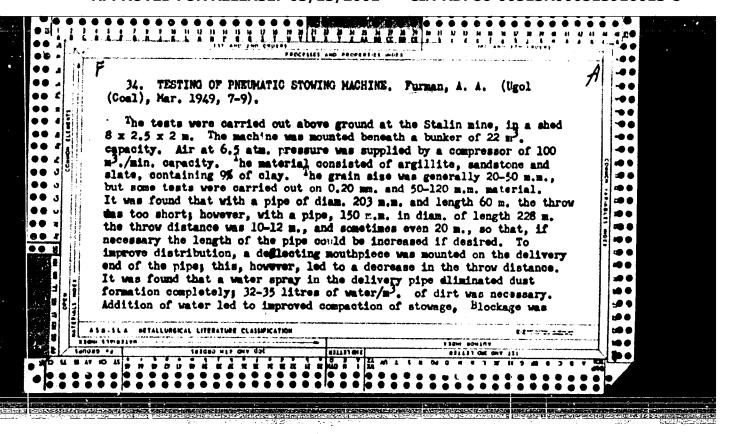
Card 2/2

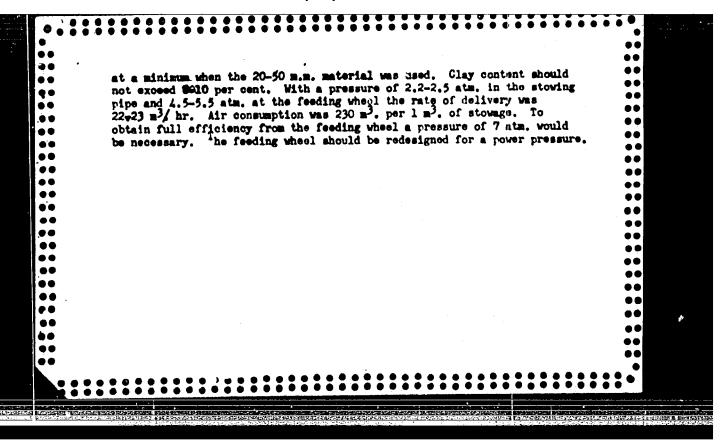
NETYKSA, M., podpolkovnik; FURMAN, A., mayor

Convenient and safe. Voen.vest. 42 no.5:112-114 My '62.

(MIRA 15:11)

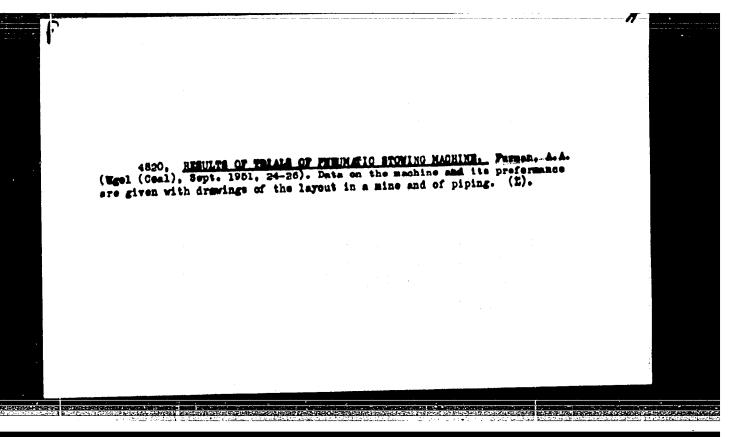
(Vehicles, Military-Transportation)

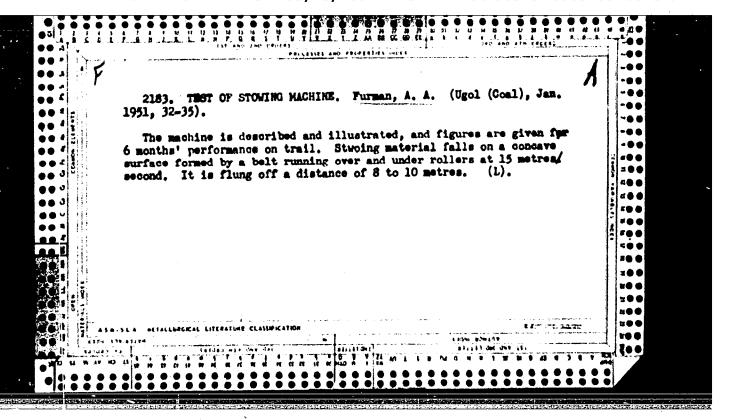




"Tests with MZ-1 Backfilling Machine Prove Effective", Ugol', No. 1, 1951.

50: W-17881, 26, Apr 1951





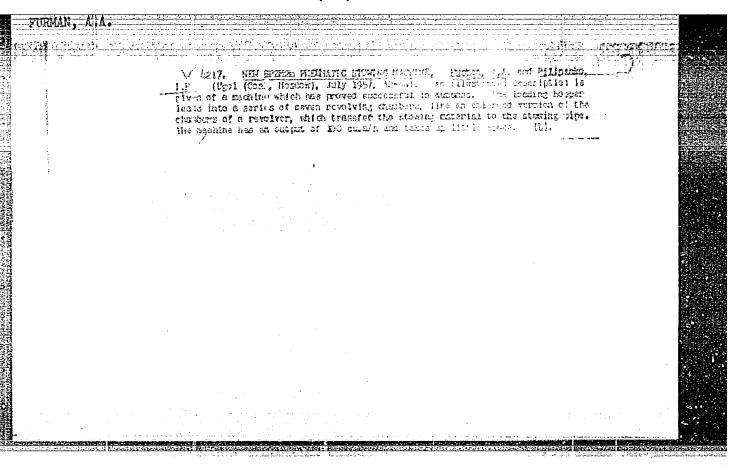
1. FUHNAN, A.A.

2. USSR (600)

4. Coal-Mining Machinery

7. Results of testing the KZL-lu light filler conveyor, Ugol' 28 no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.



FURNAN. Aleksey Alekseyevich: IVANOV, A.Ye., otv.red.; KOROLEVA, T.I., red.izd-va; ALADOVA, Ye.I., tekhn.red.

[Fill stowing] Zakladka vyrabotannogo prostranstva. Moskva.

Ugletekhisdet, 1958. 229 p.

(Mine filling)

ALEKSANDROV, B.F., inzh.; BALYKOV, V.M., inzh.; BARANOVSKIY, F.1., inzh.; BOGUTSKIY, N.V., inzh.; BUN'KO, V.A., kand.tekhn.nauk, dotsent; VAVILOV, V.V., inzh.; VOLOTKOVSKIY, S.A., prof., doktor tekhn.nauk; GRIGOR'YEV, L.Ya., inzh.; GRIDIN, A.D., inzh.; ZARMAN, L.N., inzh.; KOVALEV, P.F., kand.tekhn.nauk; KUZNETSOV, B.A., kand.tekhn.nauk, dotsent; KUSNITSYN, G.I., inzh.; LATYSHEV, A.F., inzh.; LEYBOV, R.M., doktor tekhn.nauk, prof.; LEYTES, Z.M., inzh.; LISITSYN, A.A., inzh.; LOKHANIN, K.A., inzh.; LYUBIMOV, B.N., inzh.; MASHKEVICH, K.S., inzh.; MALKHAS'YAN, R.V.; MILOSERDIN, M.M., inzh.; MITNIK, V.B., kand. tekhn. nauk; MIKHEYEV, Tu.A., inzh.; PARAMONOV, V.I., inzh.; ROMANOVSKIY, Yu.G., inzh.; RUBINOVICH, Ye.Ye., inzh.; SAMOYLYUK, N.D., kand.tekhn.nauk; SMEKHOV, V.K., inzh.; SMOLDY-REV, A.Ye., kand.tekhn.nauk; SNAGIN, V.T., inzh.; SNAGOVSKIY, Ye.S., kand.tekhn.nauk; FEIGIN, L.M., inzh.; FRENKEL!, B.B., insh.; FURMAN, A.A., inzh.; KHORIN, V.N., dotsent, kand.tekhn.nauk; CHET-VEROV, B.M., inzh.; CHUCHUNIKHIN, S.I., inzh.; SHELKOVNIKOV, V.N., inzh.; SHIRYAYEV, B.M., inzh.; SHISHKIN, N.F., kand.tekhn.nauk; SHPIL'BERG, I.L., inzh.; SHORIN, V.G., dotsent, kand.tekhn.nauk; SHTOKMAN, I.G., doktor tekhn.nauk; SHURIS, N.A., inzh.; TERPIGOREV, A.M., glavnyy red.; TOPCHIYEV, A.V., otv.red.toma; LIVSHITS, I.I., zamestitel' otv.red.; ABRAMOV, V.I., red.; LADYGIN, A.M., red.; MOROZOV, R.N., red.; OZERNOY, H.I., red.; SPIVAKOVSKIY, A.O., red.; FATBISOVICH, I.L., red.; ARKHANGEL'SKIY, A.S., inzh., red.; (Continued on next card)

FURMON A F

ALEKSANIROV, B.F. --- (continued) Card 2.

BELYAYEV, V.S., inzh., red.; BUKHANOVA, L.I., inzh., red.; YLASOV, V.M., inzh., red.; GLADILIN, L.V., prof., doktor tekhn.nauk, red.; GREBTSOV, N.V., inzh., red.; GRECHISHKIN, F.G., inzh., red.; GON-CHAREVICH, I.F., kand.tekhn.nauk, red.; GUDALOV, V.P., kand.tekhn.nauk, red.; IGNATOV, N.N., inzh., red.; LOMAKIN, S.M., dotsent, kand.tekhn.nauk, red.; MARTINOV, M.V., dotsent, kand.tekhn.nauk, red.; POVOLOTSKIY, I.A., inzh., red.; SVETLICHNYY, P.L., inzh., red.; SAL'-TSEVICH, L.A., kand.tekhn.nauk, red.; SPERANTOV, A.V., kand.tekhn.nauk, red.; SHETLER, G.A., inzh., red.; ABARBARCHUK, F.I., red.; ZPEROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheskii spravochnik. Glav.red.A.M.Terpigorev. Chleny glav.redaktsii A.I.
Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomi delu.
Vol.7. [Mining machinery] Gornye mashiny. Redkol.toma A.V.Topchiev i dr. 1959. 638 p. (Mining machinery)

FURMAN, A. A. Cand Tech Sci -- (diss) "Study of the working process, and methods of carculating pneumatic foundation-laying machines of the chamber type."

Novosibirsk, 1959. 16 pp with illustrations (Min of Higher Education USSR.

Tomsk Order of Labor Red Banner Polytechnic Inst im S. M. Kirov), 150 copies

(KL, 49-59, 141)

-52-

FURMAN, A.A.

Automatic valve with a ZDU1 (ZDU2) hydraulic memote control system.

Ugo1' 34 no.12:27-28 D '59. (MIRA 13:4)

1. Kusnetskiy filial Giprouglemasha.
(Hydraulic mining) (Remote control)

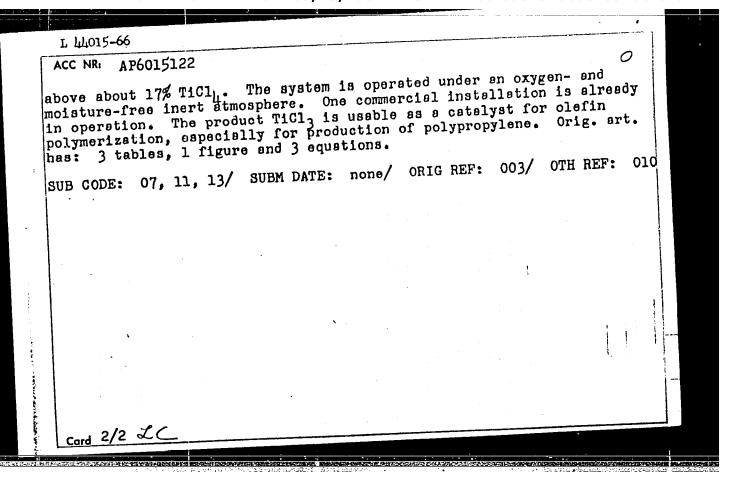
•	Method for designing pneumatic packers.	Izv.Sib.otd. AN \$SSR no.4:17-27 (MIRA 14:6)	
•	1. Sibgiprogormash, Novosibirsk. (Mining machinery) (Pneumatic machinery)		₹
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FURMAN, A.A., kand. tekhn. nauk

New designs of the units of overhead pushing conveyors. Vest.
Mashinostr. 43 no.6:42-43 Je \*63. (MIRA 16:7)

(Conveying machinery)

EWT(d)/EWT(m)/EWP(t)/ETI/EWP(h)/EWP(1) 44015-66 IJP(c) JD ACC NRI  $(N)^{-}$ AP6015122 SOURCE CODE: UR/0064/66/000/005/0042/0044 AUTHOR: Furman, A. A.; Lavrova, V. B. ORG: none TITLE: Commercial production of titanium trichloride SOURCE: Khimicheskaya promyshlennost!, no. 5, 1966, 42-44 TOPIC TAGS: titanium compound, chierlan, chemical reduction, silicon, propylene, polymerisation, polymerization catalyst, TRICHLORIDE ABSTRACT: Conditions for reduction of titenium tetrechloride with ABSTRACT: Conditions for reduction of titanium tetrachloride with silicon to form titanium trichloride were studied in the laboratory and translated to pilot operations. TiCl, vapors are passed through a reactor (900-1000°C) containing a silicon column. The product vapor mixture is cooled to 150-300°C to condense TiCl<sub>3</sub>, then cooled further to condense SiCl, and TiCl, This mixture is distilled and the TiCl, is recycled. Product TiCl<sub>3</sub> is ground and the 5-8% of adsorbed TiCl, is evaporated under vacuum, giving a 98-99% pure TiCl<sub>3</sub> containing less than 0.5% TiCl, and less than 1% insoluble impurities. Optimum TiCl, feed rate through the laboratory 120 mm Si column is in the 18.5-125 cm/(cm².min) range. Increasing contact time did not increase conversion Card 1/2 UDC: 661.882.321



RABOVSKIY, B.C.; KOGAN, V.M.; FURMAN, A.A. (Moscow)

Possibility of applying a differential thermal method for studying the kinetics of chemical reactions. Thur. fiz. khim. 38 no.12:28°5-2898 D 164.

FURMAN, A.A., kand. tekhn. nauk (Novosibirsk)

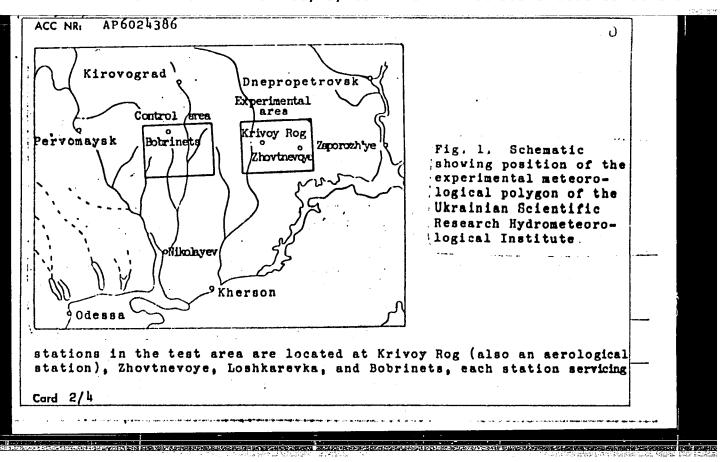
Hardening pipe by high-frequency currents. Trudy VNIIGidrouglia
no.4:36-92 '64.

(MIRA 18:3)

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CURPOSE AND COVERAGE: The aim commanders of all military rateransportation of military suitan be used as a handbook by clion by railroad.	nks in successful organ bdivision, troups and ed	nization and execution end of the control of the co	on of This book	
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h. V. Unloading of echelon	105			
h. VI. Transportation of tr SUB CODE: /5 / SUBM DATE:				
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ACC NR. AP6024386 BOURCE CODE: UR/0050/66/000/007/0052/0054	
AUTHOR: Prikhot'ko, G. F. (Doctor of geographical sciences); Furman,	
A. I.	
ORG: <u>Ukrainian Scientific Research Hydrometeorological Institute</u> (Ukrainskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut)	:
TITLE: Experimental meteorological polygon [controlled test area]	
SOURCE: Meteorologiya i gidrologiya, no. 7, 1966, 52-54	
TOPIC TAGS: meteorological instrument, climate, control,	
despersion, cloud seeding, atmospheric physics, laboratory, atmospherics	
boundary layer, meteorological already, pedar, meteorology, closel-	
observation, atmosphere procepitation,	
ABSTRACT: An experimental meteorological polygon [control test area]	
has been established in the Ukraine to determine whether weather modi-	
fication techniques can be used successfully to induce precipitation	
over flat steppe terrain. The test area consists of two 75 x 50-km polygons (3750 km <sup>2</sup> each), spaced 30 km apart and arranged along an	-
east-west line (see Fig. 1). Cloud-seeding experiments are carried	
out over the eastern (experimental) area. Only natural precipitation	
is measured in the western (control) area. Regular meteorological	*
Card 1/4 UDC: 551.50	



ACC NR: AP6024386

about 10-11 km<sup>2</sup>. "Pluviographs" (currently numbering 255, each servicing an area of 15 km<sup>2</sup>) have been installed in a regular pattern over the test area to record the time precipitation begins and ends and rainfall amounts. A denser network of these instruments has been established in the center of the experimental area for use in analyzing and evaluating radar methods of precipitation measurements. There are "precipitation gages" at all "pluviograph" stations, and at the remaining stations, "precipitation gages" and rain gages. In winter, snow stakes are set up at all observation stations (observations made twice a day at 0800 and 2000 hr Moscow time). One of the tasks of the Laboratory of the Physics of the Surface Boundary Layer of the Atmosphere located in the village of Zhovtnevoye (experimental area) is to study natural and artificially induced precipitation. This laboratory has a number of groups specializing in various types of observations. One of these groups works on radar studies (cm- and m-range radar). Another group carries out captive balloon studies in the lower 500-m layer of the atmosphere. Specialized actinometric, gradient, and other observations are made by a meteorological group. The polygons are administered from Dnepropetrovsk, which is the base for a group of flyers operating two IL-14 aircraft specially equipped with meteorological instruments. Another group here analyzes and processes the data, and still another is responsible for network inspection functions. Aircraft meteorological instrumentation includes electrical recorders for

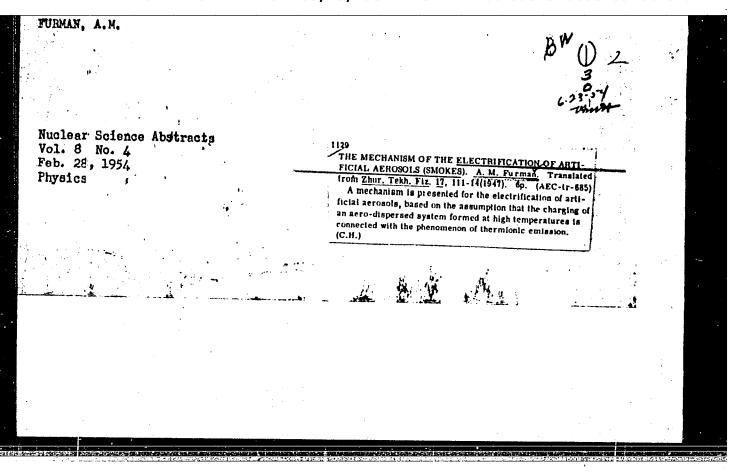
Card 3/4

registering meteorological measurements, instruments for studying the microphysical characteristics of clouds, and equipment for seeding clouds with solid and liquid reagents. At present the Experimental Meteorological Polygon has the capability of solving not only weather—modification problems but other pressing meteorological tasks as well. Agrometeorological research is already well advanced, and problems on the determination of the weather—harvest interrelationship are being implemented. Present plans call for a number of mesometeorological studies to be started soon. Orig. art. has; 1 figure. [ER]

SUB CODE: 04/ SUBM.DATE: OlMar66/: ORIG REF: 001/ DTH REF: 001

ATD PRESS: 504-3

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FURMAN, A. M.

USSR/Physics - Static, Radio Electrons Aug 50

"Possibility of Extracting Electrons From Metals by Molecules of a Neutral Gas With Electronegative Properties," S. V. Izmaylov, A. M. Furman, Cen Lab in Struggle Against Industrial Radio Interference, Min of Elec Ind USSR

"Zhur Eksper i Teoret Fiz" Vol XX, No 8, pp 729-733

Shows nonexcited subject molecules can extract electrons from a metal. Calculates number of electrons extracted by one molecule incident normally upon metal's surface with velocity V as function of molecule's polarizability alpha and minimum distance x<sub>0</sub> from surface characterizing repulsive force. Submitted 27 Jan 50.

PA 165T113

FLEINHW, MITT.

FURMAN, A.M.

56**-6-55** /56

On the Removal of Electrons from Metals by means of Fast

Molecules. (O vyryvanii elektronov iz metalla bystryni molekulami,

Russian)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr 6, pp

1591 - 1593 (U.S.S.R.)

ABSTRACT:

AUTHOR:

TITLE:

Theoretically it is shown that the mechanism of the "potential" removal of electrons from metals by the molecules of a neutral gas is explainable only if the energy of gas molecules is high enough to be able to approach the metal up to a distance of x.

For x<sub>o</sub> the following relation is true:  $x_o = (2B/mv_w^2)^{1/p}$ 

where for the constants B and p possibilities for computation

are given. The following practical example is given:

I 02-molecules pass with v = 4 km/sec over Fe, a certain

ionization begins to develop already at this velocity. At

vo = 10 km/sec nearly all 02-molecules touching the Fe-surface

are ionized.

Card 1/2

56-6-55/56

On the Removal of Electrons from Metals by means of Fast Molecules.

(With 1 table, 1 illustration, and 2 Slavic References)

ASSOCIATION: Not given

PRESENTED BY:

SUBMITTED:

28.8.1956

AVAILABLE:

Library of Congress

Card 2/2

81845

3.9000

s/033/60/037/03/014/027 E032/E314

AUTHOR: TITLE:

Furman, A.M.

of Meteor Trails. On the Theory of the Ionisation

I. Kinetics of the Variation in the Ionisation Parameters of Meteor Bodies During Their Passage Through the Earth's

Atmosphere

Astronomicheskiy zhurnal, 1960, Vol 37, Nr 3, PERIODICAL:

pp 517 - 525 (USSR)

ABSTRACT: It is shown that the ionisation parameters, i.e. the electron and positive/work functions, the atomic ionisation

potential and the probability of evaporation of a neutral atom from a meteor body vary as it heats up during its motion through the Earth's atmosphere and as its fractions with the lowest boiling point evaporate. The oxides of alkali and rare-earth metals contained in stony and monstony meteors ensure the low values of the electron and positive ion work functions. As a result of the process

of continuous ejection of particles from the surface of the meteor by the gas molecules flowing in the opposite

direction (which excludes the formation of space charges), and also due to the emission of charged particles of either

Card1/2

81845

S/033/60/037/03/014/027
On the Theory of the Ionisation of Meteor Trails. I. Kinetics of the Variation in the Ionisation Parameters of Meteor Bodies During Their Passage Through the Earth's Atmosphere

sign, a dynamic equilibrium is set up between the emission intensities of electrons and positive ions. This leads to an equality between the positive ion and the electron work functions. A calculation of the equilibrium work functions shows that the existing theories of ionisation of meteor trails as reviewed by Herlofson in Ref 1 must be reconsidered. A detailed account of this will be given in a future issue of the present journal. Acknowledgment is made to Professor V.V. Fedynskiy for valuable advice. There are 5 tables and 18 references, 6 of which are English, 1 French and 11 are Soviet.

SUBMITTED: March 20, 1959

Card 2/2

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83234

5/033/60/037/04/010/012

AUTHOR: Furman, A.M.

E032/E314

TITLE:

Theory of Ionisation of Meteor Trails. II. The Role of Ionising Phenomena on the Surface of the Meteor Body

PERIODICAL: Astronomicheskiy zhurnal, 1960, Vol. 37, No. 4, pp 746 - 752

TEXT: In a previous paper (Ref 8), the author showed that as the temperature of the meteor body increases, the electron and positive-ion work functions will change as a result of the evaporation of alkali and rare-earth metals and also the charging up of the meteor body. As a result of the latter effect, a dynamic equilibrium is set up between the intensities of the electron and the positive-ion emissions. This, in turn, favours a considerable increase in the work functions for charged particles of either sign. Moreover, in the case of stony and iron-stony meteors, the presence of oxides of alkali and alkali rare-earth metals ensures that the equilibrium values of the work function are relatively low up to 3 200 °K. This theory is extended in the present paper and it is shown that for a "typical" meteor with Card 1/3

\* Astronomichesky Zhurnal, 1960, Vol. 37, No. 3, pp 517-525 (USSR)

83234

\$/033/60/037/004/010/012

Theory of Ionisation of Meteor  $T_rails^{EO3} 2 T^{E.31}$  The Role of Ionising Phenomena on the Surface of the Meteor Body

 $V=4\times10^6$  cm/sec, r=0.8 mm and  $S=8.05\times10^{-2}$  cm<sup>2</sup> the linear ionisation density of the meteor trail is  $2\times10^{-8}$  n(T), where n(T) is the intensity of electron-ion emission per sec per cm<sup>2</sup>. Below 1000 K alkali and alkali rare—earth impurities ensure electron and ion emission giving rise to a linear ionisation comparable with and exceeding 10 electrons/cm. Thus, for T=750 K, the common work function  $\phi^{4}=1$  eV and the linear ionisation density is  $1.68\times10^{-13}$  electrons and ions per cm of trail. For T=3000 K,  $S=8.05\times10^{-2}$  cm<sup>2</sup> and  $\phi^{2}=2$  eV, the linear density is found to be 2.4 x  $10^{-16}$  electrons and ions per cm of trail. This exceeds by four orders of magnitude the values given by Herlofson in Ref. 1. Thus the contribution due to thermionic emission must be looked upon as appreciable. Another effect considered in the present paper is the ejection of Card 2/3

17 references: 1 German, 7 English and 9 Soviet.

83234 \$/033/60/037**/**04/010/012

Theory of Ionisation of Meteor Trails. The Role of Ionising Phenomena on the Surface of the Meteor Body

electrons, ions and neutral atoms from the meteor by collision with air molecules. It is shown that this effect can ensure sufficient linear ionisation to give rise to a radio echo. In a "typical" case, the value of this ionisation is found to be between 2 x  $10^{12}$  and 5 x  $10^{12}$  ions per cm of trail. Finally, it is shown that the "potential ejection" of electrons also gives rise to linear density of ionisation capable of producing a radio echo (in a "typical case" this is found to be 6 x  $10^{13}$  ions per cm of trail). There are 4 tables and

SUBMITTED: March 20, 1959

Card 3/3

TOTAL	N, A. M.
	Distribution of light and medium ions in the atmosphere by their mobility and concentration. Trudy GGO no.97;106-116 '60. (MIRA 13:8)
	(Air, Ionized)
STANCE STATE	

L 13595-63

EWT(1)/FCC(w)/BDS/ES(v)/EEC-2/ES(w)-2 AFFTC/ASD/ESD-3/8SD

Pe-4/Pab-4 CW

ACCESSION NR: AP3004330

8/0033/63/040/004/0733/0741

10

AUTHOR: Furman, A. M.

TITIE: On the theory of ionization of meteor trails. III. Ionization caused by molecules reflected from meteoric matter and air atoms

SOURCE: Astronomicheskiy zhurnal, v. 40, no. 4, 1963, 733-741

TOPIC TAGS: meteor, meteor trail, meteoric ionization, meteoric particle

ABSTRACT: An investigation is made of a suggested <u>ionization mechanism</u> occurring in the vicinity of meteors, in which air atoms or molecules (principally nitrogen) bounce off meteoric particles with sufficient velocity to cause ionization of other air molecules. Quantitative expressions are obtained for several factors governing such a process, including linear ionization density along the meteor trail, flux density and velocity of reflected air molecules, and the effective ionization cross section during the rebound time. The case is considered for both atomic and molecular oxygen and nitrogen, and it is shown that their rebound velocities can be as much as 1.4-1.7 times the particle velocity at impact, depending on whether stone or iron particles are assumed. The probability of ionization being induced by the rebounding molecule is analyzed. The present

Card 1/2

### "APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000513910013-8

L 13595-63 ACCESSION NR: AP3004330

wide disagreement as to its proper expression is suggested to be due to the fact that this probability until now has been considered as being independent of rebound velocity; the author postulates instead a strong dependence on velocity. A lower limit of meteor velocity is deduced, below which the ionization in question will not take place; for stone particles striking N<sub>2</sub> this is found to be 35 km/sec, and for iron particles striking O<sub>2</sub>, about 30 km/sec. It is concluded that ionization of the type described is several orders less effective than ionization from atoms of vaporized meteor particles; in fact its contribution to overall ionization in the meteor trail can be neglected. Orig. art. has: 1 figure, 1 table, and 18 formulas.

ASSOCIATION: none

SUBMITTED: 19Nov62

DATE ACQ: 20Aug63

ENCL: 00

SUB CODE: AS

NO REF SOV: 010

OTHER: 021

Card 2/2

FURMAN, I. Va., dotsent (Voronezh); TUMMEL', V.S., inzh. (Voronezh); FURMAN, A.M., insh. (Voronezh)

Increasing the yield of water wells by torpedoing. Gidr. i mel. 16 no.1: 53-56 Ja '64. (MIRA 17:2)

EWT(1) GW

27361-67 EWT(1 ACC NR. AP6033171 SOURCE CODE: UR/0033/66/043/005/1052/1063 AUTHOR: Furman, A. M. 4/9 B ORG: none TITIE: Theory of ionization of meteor trails. IV. Efficiency of meteor trail ionization by collision of meteoric vapor particles with air molecules SOURCE: Astronomicheskiy zhurnal, v. 43, no. 5, 1966, 1052-1063 TOPIC TAGS: meteor trail, ionization phenomenes, particle collision, ionization cross section, radar meteor observation ABSTRACT: The contribution of meteoric vapor-particle collision with air molecules to the ionization of meteor trails was estimated based on recent experimental data on ionization cross sections as applied to meteoric materials (iron, calcium, potassium, silicon, magnesium, sodium, oxygen) at meteor velocities (40 km/sec). The values thus obtained for ionization probability are 20-200 times smaller than those for ionization in meteor trails as determined from radar observations. This contradicts the basis of the Opik-Herlofson theory that fast particle collision with air molecules is the cause of ionization in meteor trails. This ionization mechanism cannot explain the linear ionization density observed by radar methods nor the ionized trails formed by meteors travelling at velocities below 25-30 km/sec since the energies of the atoms at such VDC: 523.57 Card 1/2

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Absorption of radiation in volumes of substance containing radio-active isotopes [with summary in English]. Izv. TSKhA no.3:110-115

(MIRA 11:3)

(Plants, Effect of radioactivity on)

FURMAN, A, O, TSELISHCHTV, S.P.; FURMAN, A.O.

Absorption of beta-radiation in thin layers of substance and their role in the absolute measurement of beta-activity [with summary in Rnglish]. Izv. TSKMA no.3:116-130 '57. (MIRA 11:3) (Beta rays)